**3GPP TSG-RAN WG2 Meeting #124** **R2-23xxxxx**

**Chicago, IL, USA, November 13 – 17, 2023**

**Agenda item: 7.5.1**

**Source: LG Electronics Inc. (Rapporteur)**

**Title: [Post124][042][XR] 38.323 CR (LG)**

**Document for: Discussion and Decision**

# Introduction

This document collects the comments received during the following email discussion on PDCP CR for XR.

* [POST124][042][XR] 38.323 CR (LG)

 Intended outcome: Agree to CR

 Deadline: 2 weeks

# Contact information

|  |  |  |
| --- | --- | --- |
| Company | Name | Email |
| LG Electronics | SeungJune Yi | seungjune.yi@lge.com |
| Nokia | Benoist Sébire | benoist.sebire@nokia.com |
| Apple | Ralf Rossbach | rrossbach@apple.com |
|  |  |  |

# Discussions

Companies can provide comments and suggestions to the PDCP CR:

|  |  |  |  |
| --- | --- | --- | --- |
| Company + Issue Number (e.g., L001) | Issue | Comments and proposed changes | Rapporteur comment |
| N001 | Editorial | Just to make sure: the final version needs to remove changes on changes, and the Annex. | Yes, definitely.The changes on changes and the Annex are only included during the discussion for easy checking. |
| N002 | 3.1 and 5.6 Delay Critical  | While we understand modifying the definition makes the procedure on data volume lighter, we would prefer sticking to the previous text to avoid specifying a behaviour within a definition.**In response to the rapporteur comments:** we have a slight preference for option 3 since it is the cleanest. | This is the most tricky issue I have. I agree it is not good to specify a behaviour in the definition section. But, 5.6 is not a proper place to capture the UE behaviour of delay-critical indication to RLC because 5.6 only talks about the delay-critical data volume. I think there are three options to capture the delay-critical indication to RLC.1. Add the behaviour in the definition section (as in current CR)2. Add the behaviour in a NOTE below delay-critical data volume in 5.6.3. Add a new section to specify the delay-critical data volume calculation and indication to RLC.Other options are also welcome.Let me hear more opinions before making changes. |
| N003 | " including both already stored PDCP SDUs and newly received PDCP SDUs" | We do not recall an agreement justifying this, so unless we have misunderstood something, this change should be removed.**In response to the rapporteur comments:** for discard, we believe the previous wording covered the discard of all SDUs. The wording "newly received" is a bit ambiguous since anything received should become an SDU right away. How about a note instead, to state that discard should also apply to any future SDUs of the PDU set ?For data volume, we also agree that the whole PDU set should be reported but if SDUs are not stored yet, we need to rely on the RTP header extension (PSSize) and since we left PSI handling up to UE implementation, it would seem logical to also leave that to UE implementation. That is, only state that all SDUs of the PDU set should be taken into account. If needed, a note could be added like we did for the PSI, e.g. *Identification of the size of a PDU Set when not all SDUs have been received is left up to UE implementation* | For delay-critical data volume in 3.1, there was an agreement in R2#123.The data volume calculation to be reported in the DSR will consider the at size of the full remaining PDUs in the PDU set (if any PDU within the PDU set is with remaining time below the threshold), if the PDU set discard is configured.For SDU discard, I think it is common understanding that all newly received SDUs are discarded if they belong to the same PDU Set.Let me hear more opinions before making changes. |
| N004 | 5.3 : "stored" | We do not recall an agreement justifying changing how discard operates (the change also affects legacy operation). So unless we have misunderstood something, this change should be removed.**In response to the rapporteur comments:** since this impacts legacy behaviour, we would prefer not adding "stored". | This change is made from R2-2311908 (vivo), but I’m ok without “stored”.Let me hear more opinions before making changes. |
| A001 | psi-BasedDiscard (5.2.1 and 7.3 *)* | The current text uses in sections 5.2.1 and 7.3 the term *“if psi-BasedDiscard is configured and PSI based SDU discard is activated”*. However, the RRC CR does not have a configuration for *psi-BasedDiscard*, we just have a capability there, since RAN2 agreed to control PSI based discard with a MAC CE. On the other hand, we have an RRC config for the new discard timer (*discardTimerForLowImportance*) which the network only configures if *psi-BasedDiscard* is supported by the UE. So, the PDCP CR may use *“if discardTimerForLowImportance is configured and PSI based SDU discard is activated”* instead.  | Thanks, that’s correct observation. I’ll change “if psi-BasedDiscard is configured” to “if discarTimerForLowImportance is configured” in 5.2.1.In 7.3, I’ll remove “psi-BasedDiscard is configured and”. |
| A002 | Identify that PSI based discarding is activated by MAC (5.2.1 and 7.3) | Add a reference to the MAC spec for places where the term “PSI based SDU discard” is used, e.g., “PSI based SDU discard is activated as specified in TS 38.321 [4]”, for linking and identification. | I worry that it breaks the consistency of the specification. Overall procedure is similar to PDCP duplication, but there is no reference to MAC for PDCP duplication. |
|  |  |  |  |

# Conclusion

TBD